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Cover: Pseudocolor image of a film autoradiogram showing the density of arg 3.1 mRNA detected by radioactive *in situ* hybridization in the olfactory bulb of a rat exposed 6 days to air and tested with isoamyl acetate. See the article by Montag-Sallaz and Buonvipo on page 61.

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Cover: Adult animal of the brine shrimp *Artemia salina* Linnaeus, 1758 (Branchiopoda, Anostraca) with fully developed compound eyes. See the article by Wildt and Harzsch on page 117.

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Cover: An antagonistic and spatially distinct pattern of protein kinase A and C activation is a mechanism for Hebbian activity–dependent synapse modification. See the article by Li et al. on page 241.

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Cover: Transient staining of developing starburst amacrine cell dendrites with an antibody to the gap junction protein Connexin 26. This dramatic staining profile is only seen during the period of synaptogenesis and lasts for less than a day, moving along the developmental gradient from central to peripheral retina. This may reflect a role for connexin 26 as an electrical synapse in the wiring up of the retina. See the article by Becker et al. on page 280.